AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions and listings of claims in this application. In the changes made to the claims by the current amendment, ~~deletions are shown by strikethrough~~, and additions are underlined.

LISTING OF CLAIMS

1. **(Previously Presented)** An ophthalmic lens extraction apparatus comprising:

a phacoemulsification handpiece having a needle, the needle configured to be ultrasonically vibrated;

a power source configured to provide pulsed electrical power to the handpiece; and

a computer programmed to control the power source such that the pulsed electrical power to the handpiece has a pulse repetition rate in a range greater than 25 pulses per second and less than 2000 pulses per second.

2. **(Previously Presented)** The lens extraction apparatus according to claim 22, wherein said switch comprises a footswitch.

3. (Cancelled)

4. **(Previously Presented)** The lens extraction apparatus according to claim 22, wherein said switch enables a linear selection of the ultrasonic pulse amplitude.

5. **(Previously Presented)** The lens extraction apparatus of claim 2, wherein continued linear footswitch displacement enables activation of a series of pulse duty cycles of power supplied to the handpiece.

6. **(Currently Amended)** A phacoemulsification apparatus comprising: a phacoemulsification handpiece having

a needle, the needle configured to be ultrasonically vibrated;

a power source configured to provide pulsed electrical power to the handpiece;

an input enabling a surgeon to select ~~at least one of~~ an ultrasonic pulse amplitude and a pulse duty cycle supplied to the handpiece; and

a computer programmed to respond to the selected pulse amplitude [[or]] and the selected pulse duty cycle, the computer further programmed to control the power source such that the pulsed electrical power has an off duty cycle to ensure heat dissipation before a subsequent pulse is activated.

7. **(Previously Presented)** The phacoemulsification apparatus according to claim 6, wherein said input comprises a switch.

8. **(Previously Presented)** The phacoemulsification apparatus according to claim 6, wherein said computer controls the power source to provide pulsed electrical power with a pulse repetition rate of between about 25 and about 2000 pulses per second.

9. **(Previously Presented)** The phacoemulsification apparatus according to claim 6, wherein said input enables a linear selection of pulse amplitude.

10. **(Canceled)**

11. **(Canceled)**

12. **(Canceled)**

13. **(Canceled)**

14. **(Currently Amended)** A method for operating a phacoemulsification system, the system including a phacoemulsification handpiece, a power source configured to provide pulsed electrical power to the handpiece, and a control unit, said method comprising:

(a) providing pulsed electrical power from the power source to the handpiece for performing the phacoemulsification procedure;

([[f]]b) controlling the power provided to the handpiece to have a pulse repetition rate in a range greater than 25 pulses per second and less than 2000 pulses per second.

15. **(Canceled)**

16. **(Currently Amended)** The method according to claim 14, wherein controlling [[the]] the power provided to the handpiece includes controlling a pulse duty cycle in a linear manner.

17. **(Previously Presented)** The method according to claim 16, wherein controlling a pulse duty cycle includes the use of a footswitch which angles in at least one ordinal plane.

18. **(Previously Presented)** The method according to claim 14, further including controlling an amplitude of power pulses via a footswitch.

19. **(Canceled)**

20. **(Currently Amended)** The method of claim 14, further comprising the provision of a second instrument for a bimanual phacoemulsification procedure.

21. **(Currently Amended)** The method of claim 14, ~~whereby the heat resulting in tissue insult is mitigated providing a clear cornea within the first post operative day.~~ wherein the pulsed electrical power includes off duty cycles between pulses, and further wherein the method further comprises controlling the off duty cycles to ensure heat dissipation before a subsequent pulse is actuated.

22. **(Previously Presented)** The lens extraction apparatus according to claim 1, further including a switch configured to receive manual input of at least one of an ultrasonic pulse amplitude and a pulse duty cycle.

23. **(Previously Presented)** The phacoemulsification apparatus according to claim 7, wherein said switch comprises a footswitch, the footswitch configured to enable a surgeon to linearly control the pulse duty cycle.

24. **(Previously Presented)** The method according to claim 14, wherein controlling the power provided to the handpiece includes controlling a pulse duty cycle